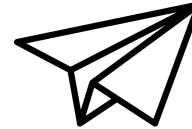


# Project Recap Presentation

**memreprise**

Casey Nguyen, Brent Johnson, Tristan Wang, Gray Wong

# memreprise



where music and memories meet

# Team Members



**Casey Nguyen**  
BSCS '24, MSCS '24  
Full Stack Developer

**Brent Johnson**  
MSLDT '24  
Designer, Developer,  
Author, PM, Educator

**Tristan Wang**  
MSCS '24  
Designer, Developer

**Gray Wong**  
MSCS '24  
Designer, Developer

# Problem & Solution Overview



## Problem

- People often have **deep, yet hard-to-quantify associations** with their favorite music.
- These associations go **undocumented and unshared**



## Solution

- An app that prompts you **daily** to:
- Log the song you're **currently listening to**
  - Associate it with a **themed question**
  - **Discover new music** by seeing how other users answered and tagged their music

# Who does it serve?

- Those interested in **new music**
- Those interested in random music **exchange**
- Those willing to **share** their own music
- Those who like **documenting** their lives



# Presentation Outline



01

**Design Evolution**  
(slides 7 – 19)

02

**Current UI**  
(slides 20 – 31)

03

**Demo**  
(slides 32 – 33)

04

**Future Enhancements**  
(slides 34 – 40)

01

# Design Evolution



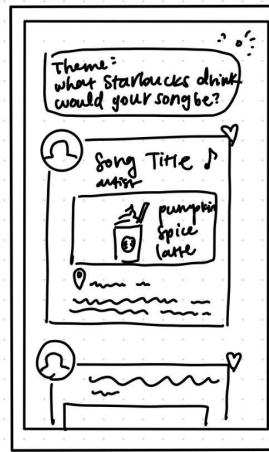
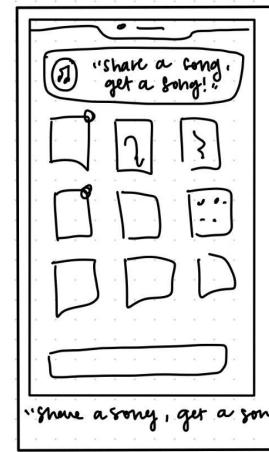
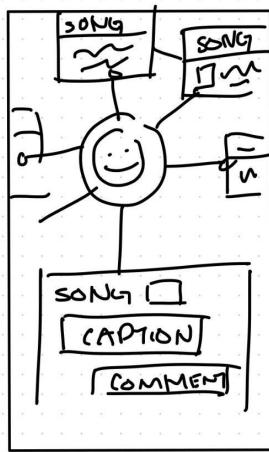
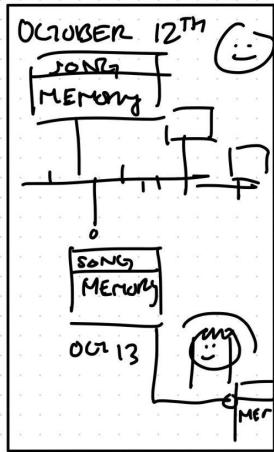
# Needfinding

**How can we harness power of music to evoke emotions and connect with past?**

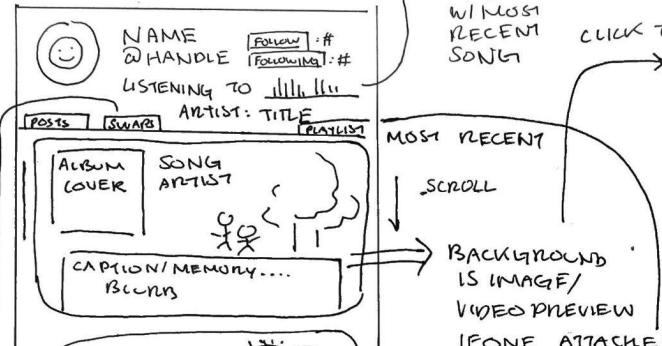


- Lasting and renewable connection between music and cultural roots
- Musical impact also relies on the environment and physical medium
- Blend of musical interests are positively accepted from our interviewees
- Strong emotional connections to varied music over many years.
- Music has the power to transport listeners.

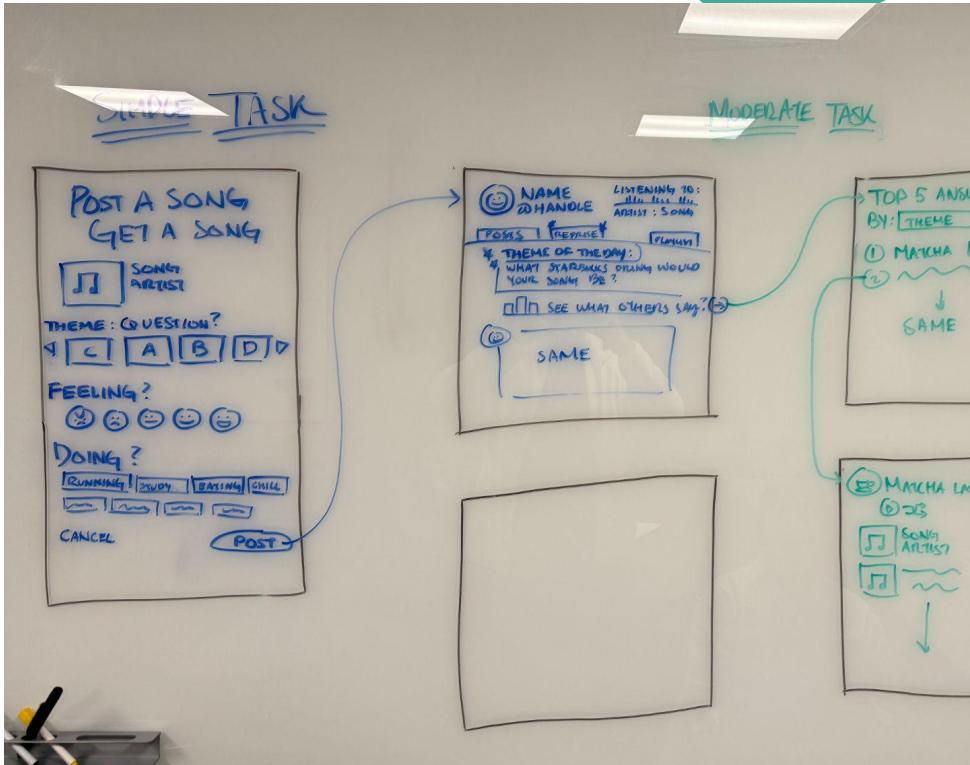
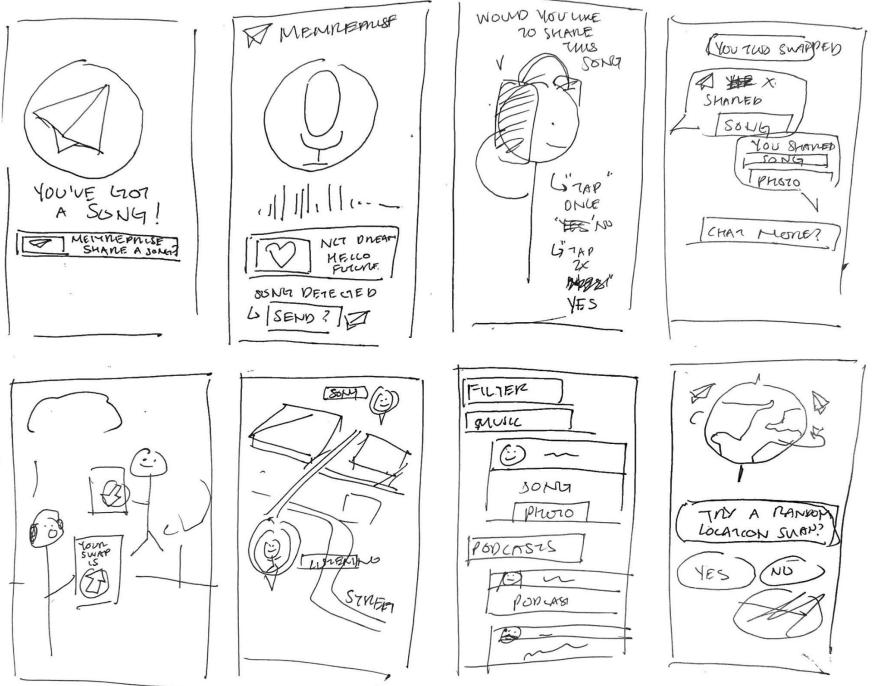
# Concept Sketches



## MEMORY MAP



# Crazy 8's and Storyboards



# Lo-fi Prototype

The prototype consists of several screens connected by red arrows:

- ~MEMREPRISE~**: The main posting screen. It includes fields for "SONG NAME", "ARTIST", "CAPTION", and "THEME: WHAT STARBUCKS DRINK WOULD YOUR SONG BE?". Below these are sections for "FEELING?" (with icons for sad, neutral, happy) and "DOING:" (with icons for running, studying, eating, sleeping). Buttons include "PUSH", "CANCEL", and "NEXT".
- ~MEMREPRISE~**: A second version of the posting screen, similar to the first but with different button placement.
- LISTENING TO: SONG**: A screen showing a list of songs with their artists and a "PLAYLISTS" section.
- TOP 3 ANSWERS**: A screen showing top answers categorized by theme: "THEME" (Matcha Latte, Frappuccino, Pink Drink), "FEELING" (Happy, Super Happy, Sad), and "ACTIVITY" (Studying, Coffee, Dancing).
- OCTOBER**: A timeline screen showing a month's worth of posts. It includes dropdowns for "TIME PERIOD" (1 Month, 2 Months, 6 Months, 1 Year) and "CHOOSE SONGS BY" (FEELING, ACTIVITY). A note says "Different answer options appear depending on user's choice".
- AUG - OCT**: A timeline screen for the August-October period.
- MAY - OCT**: A timeline screen for the May-October period.
- OCT '22 - OCT '23**: A timeline screen for the October 2022 to October 2023 period.
- YOUR REPRISE**: A screen where users can choose songs by feeling and export them. It includes buttons for "SEND LINK" and "SEND MESSAGE".
- EXPORT SUCCESSFUL!**: A confirmation message indicating the export was successful.

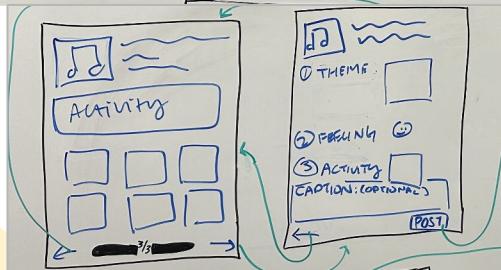
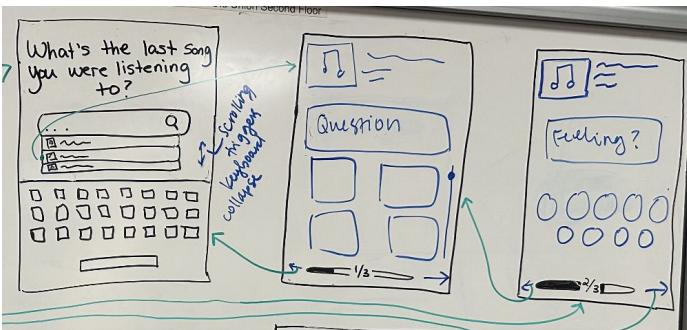
**Text at the bottom:**

These are different variations of time lengths in post history. The buttons and dropdowns function exactly like the "1 month" functionality.

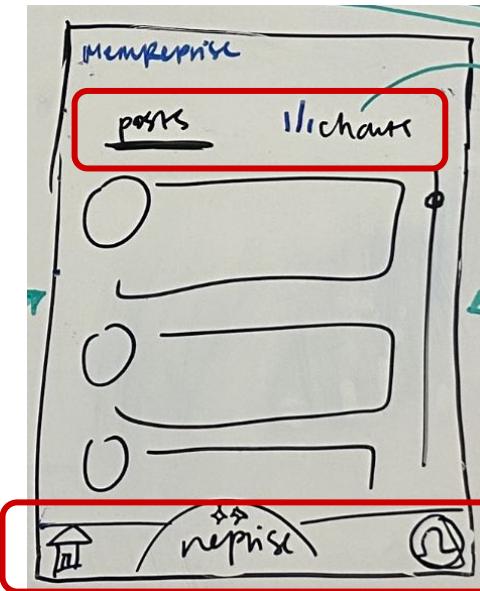
# Lo-fi Changes

Information partitioned into separate screens and information grouped to enhance clarity and avoid cognitively overwhelming users

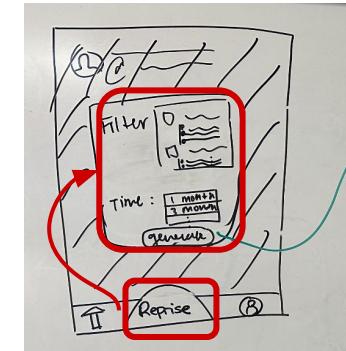
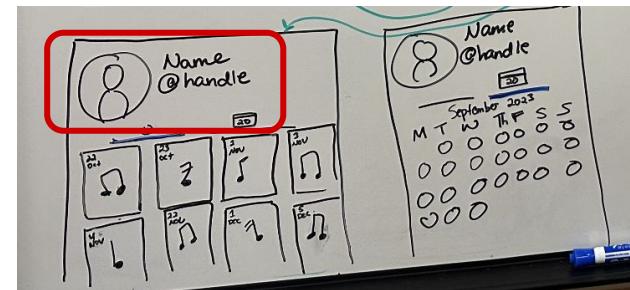
Post draft separated into multiple screens



Different tabs for different feeds



Clearer calendar access, separated post history and reprise



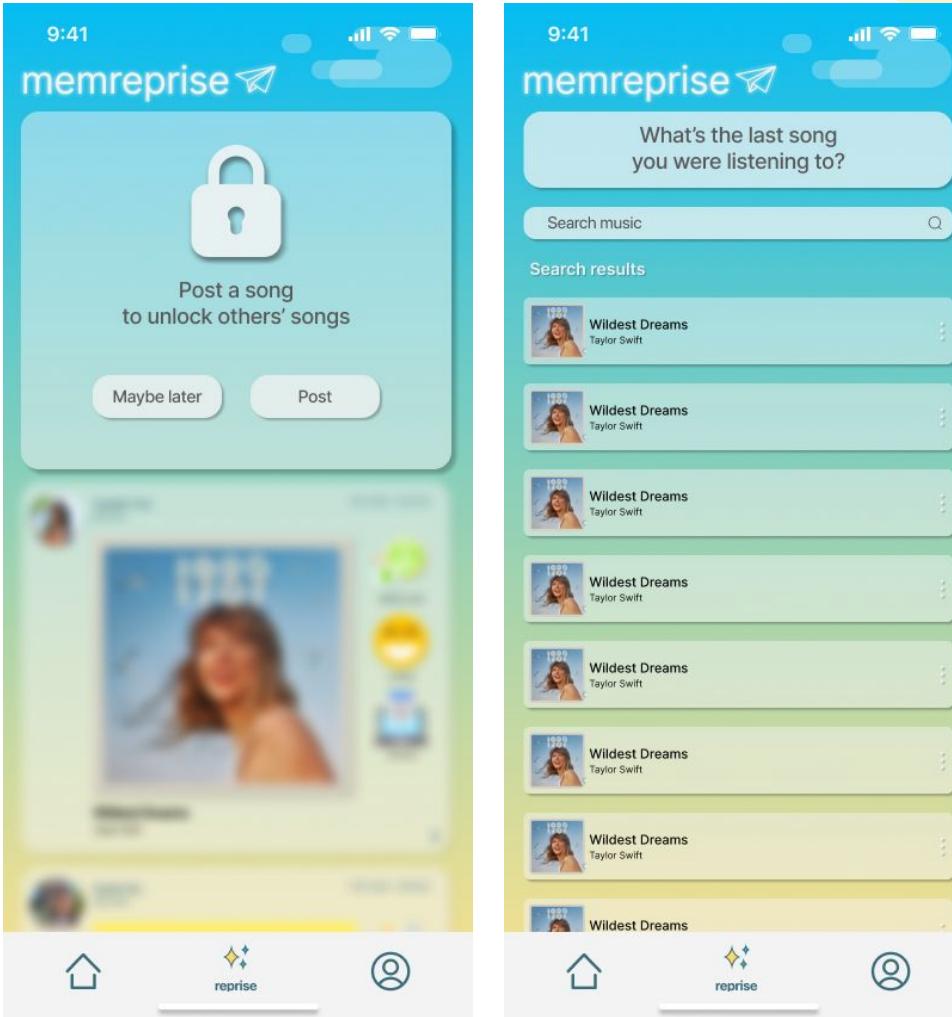
# Med-fi Prototype



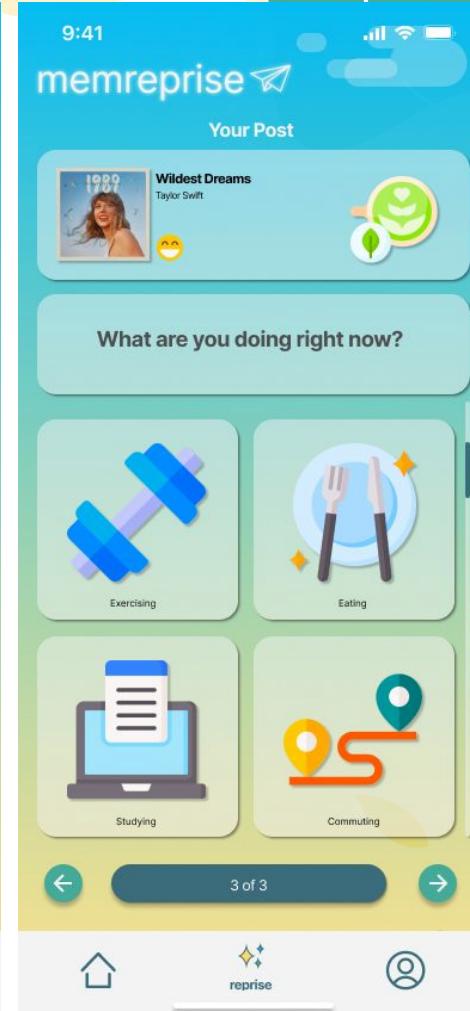
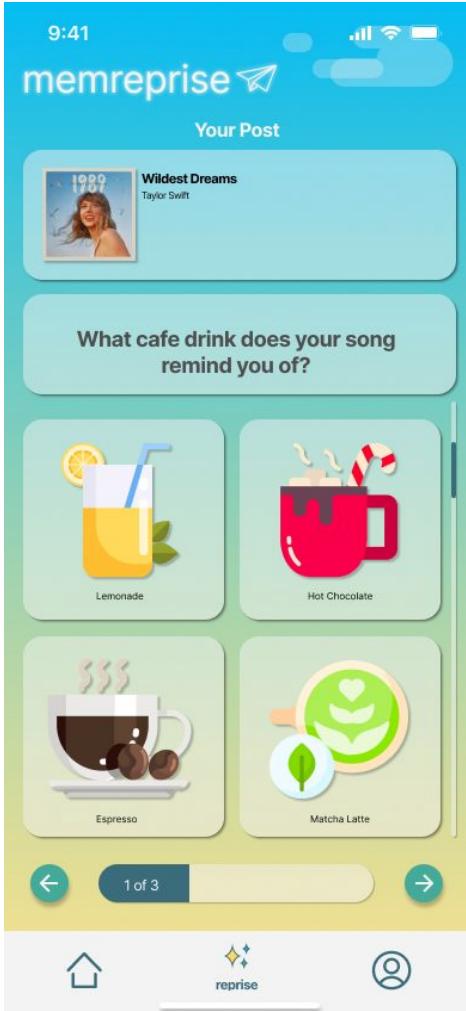
- **Visual Design (Aesthetics, Accessibility, and Consistency)**
  - Usable and legible, interactive elements and text
  - Standardize size, labeling, and layout – **information hierarchy**
- **More Power to the User (Control, Flexibility, and Visibility)**
  - Add features for **greater user control over posting** (privacy, deletion, incorporating play history)
  - Highlight existing **areas of user control**
- **Terminology**
  - Rename and re-label features to reduce confusion
  - Create **documentation** for MemReprise specific terms and features



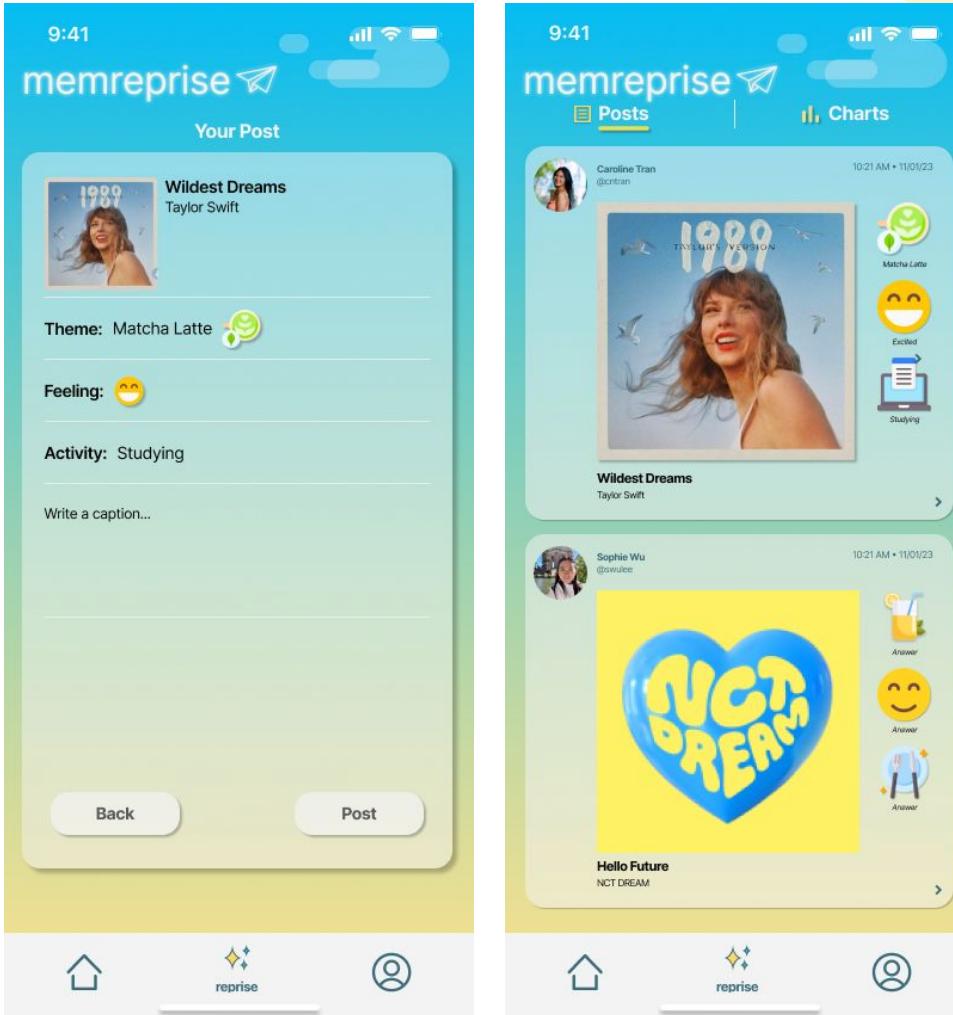
# Search Up Song



# Personalize Post



# Finalize Post



# Prototypes

Severity	Description	Fix
3	Users can't view any content without posting	Allow users to <b>view old posts without posting</b>
3	There's no indication of privacy level and audience when posting	Add <b>privacy setting menu</b> in the post preview
3	No explanation for making post	Create <b>onboarding screens</b>

# Moderate Task

Discover music from other users with similar associations

Severity	Description	Fix
3	Unclear that “Charts” tab was where to go to discover music	<b>Rename tab to “Discover”,</b> and add labels to clarify
3	Text sizes across this task flow are very small	Increase and <b>standardize</b> text, sizes, & post layout
3	Controls and interactive elements are very small	Increase & standardize size of <b>interactive elements</b>

# Complex Task

Create personalized playlist from songs you posted shared

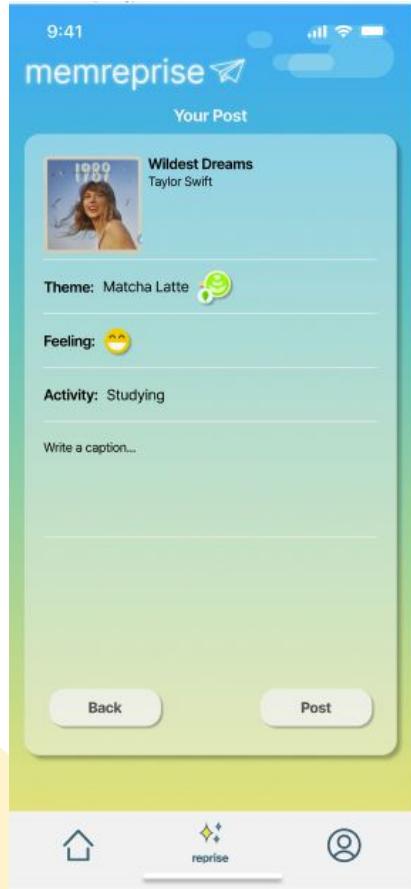
Severity	Description	Fix
3	The term “Reprise” is unfamiliar to users	Explain term, functionality in <b>onboarding screens</b>
3	Calendar view of a user’s activity is organized in an confusing way	Add <b>date labels &amp; white space separation</b> to better reflect chronological layout
3	Users cannot delete posts	Create <b>onboarding screens</b>

02

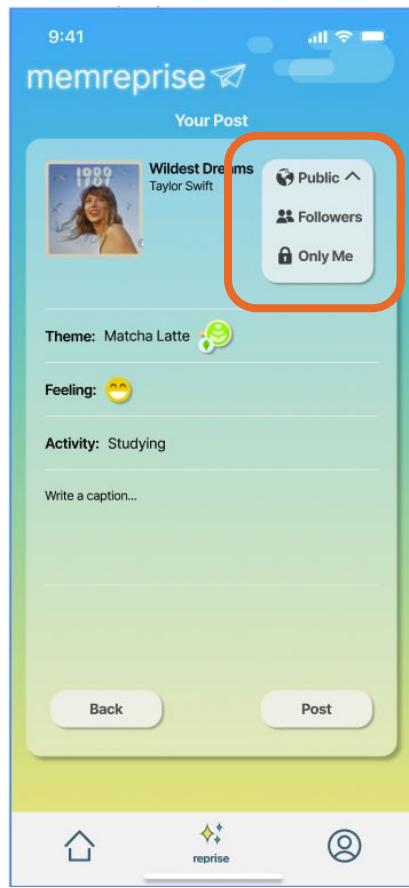
## Current UI



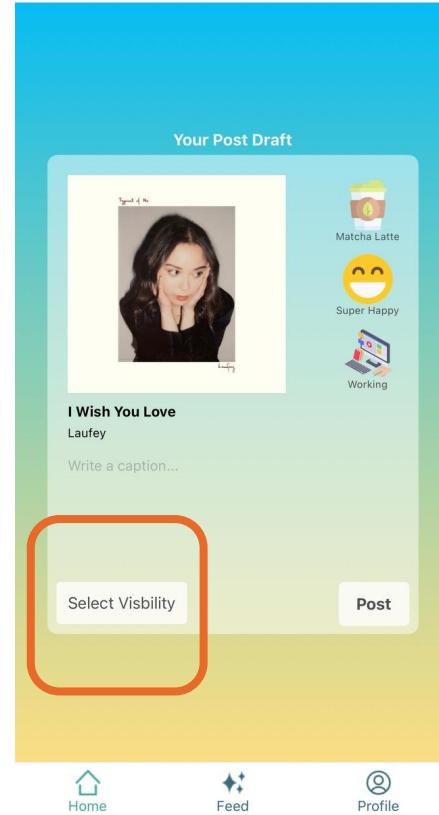
Before



After



Back  
Post Summary



# Post Overview

## Rationale:

- User may not want to share post to everyone
- Provides a memory archive for each user
- Design is more legible

## Progress towards usability goals:

- Power to the user
- Authentic posts
- Personalized community

Before



After



# My Reprise Pop-Up

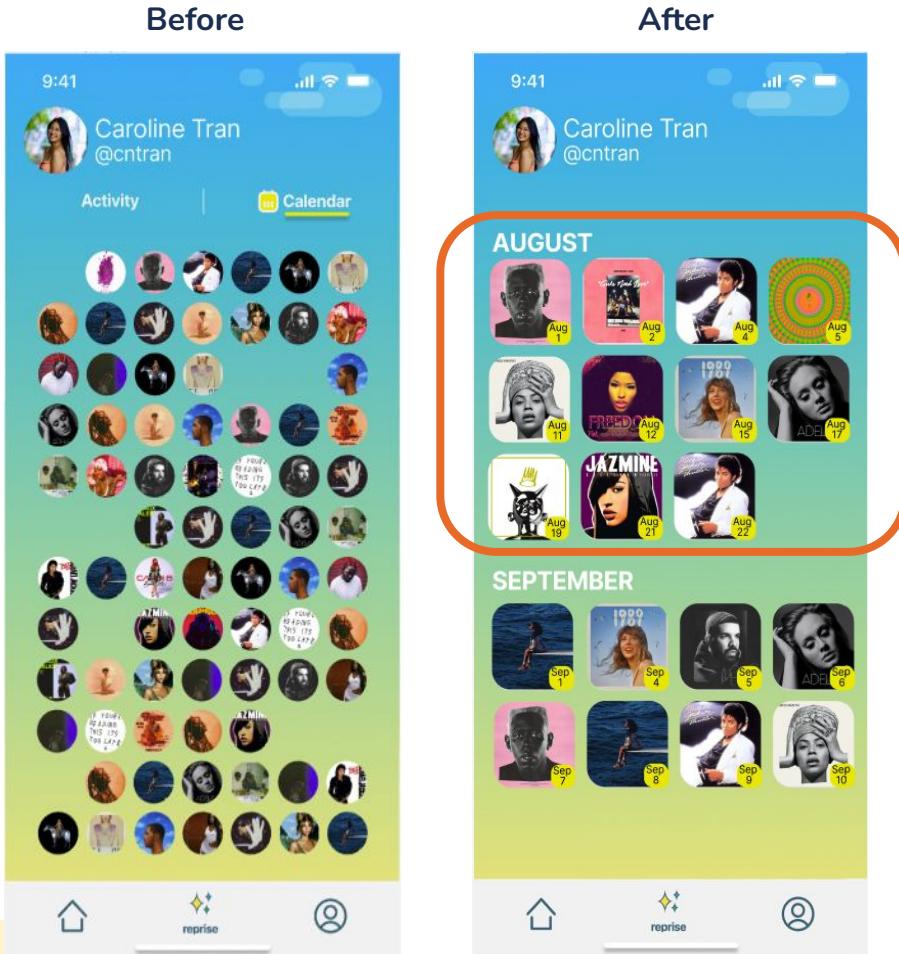
## Rationale:

- Theme didn't have a clear meaning
- Filtering didn't contain all options seen previously

## Progress towards usability goals:

- Gives user more autonomy on what to select
- Specific between activity or emotions

# Calendar Activity



## Rationale:

- Circles under calendar were **too small** and difficult to see
- Circle icons not having dates were **confusing**

## Progress towards usability goals:

- Easier to see and click on
- Clear what month these posts occurred on

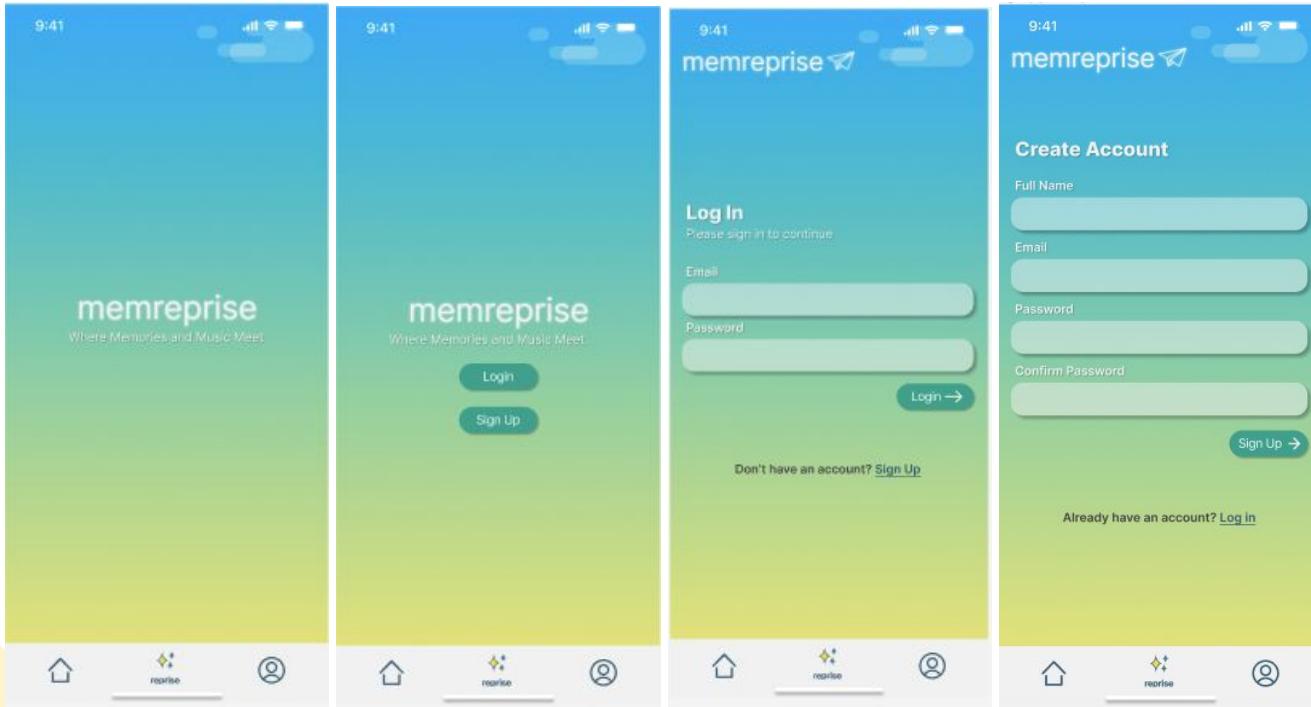
# New Screens Implemented



# **Representative Tasks**



# Task 0: Log In and Sign Up



## Rationale:

- **New users** can be identified and led through tutorial

## Progress towards usability goals:

- Once a user signs in, their information will be saved
- Allows for user Spotify music to easily be accessible
- Smaller learning curve

# Tutorial



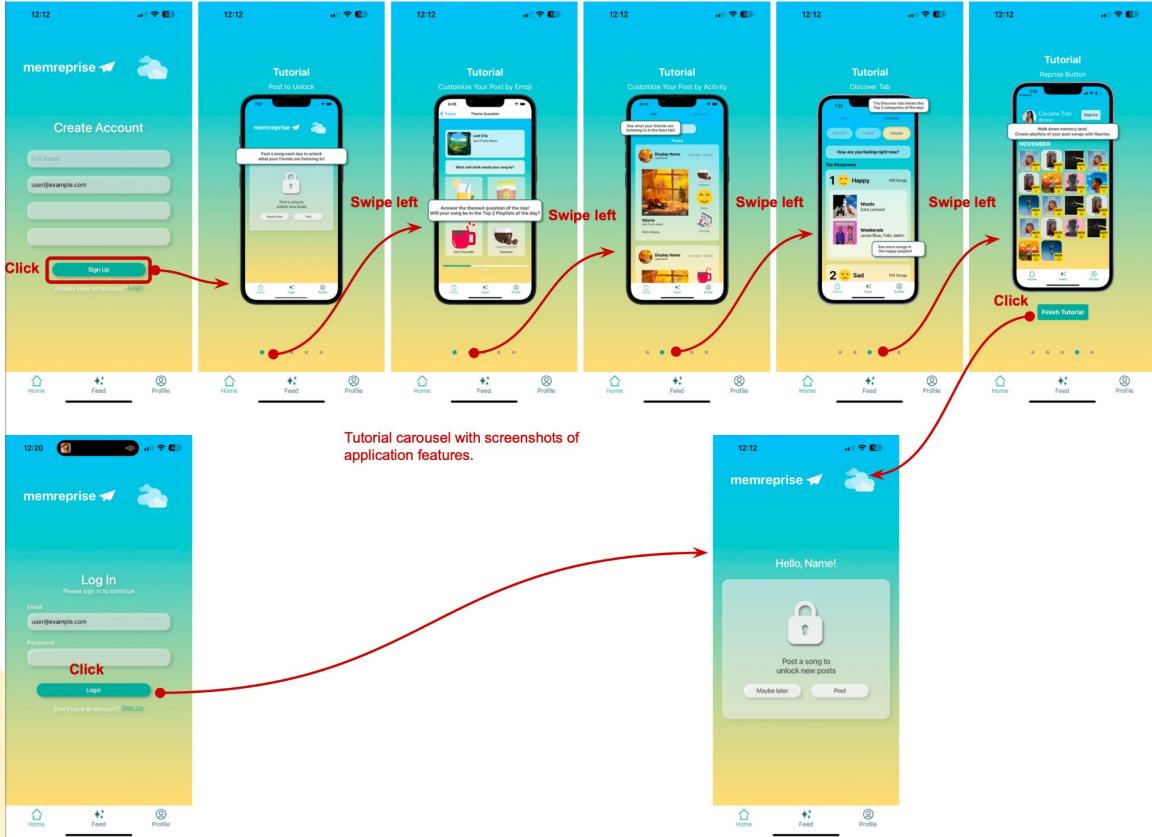
## Rationale:

- Users can be potentially confused on how to work the app
- Step-to-step guide to help with this

## Progress towards usability goals:

- Helps users understand the app before jumping straight in

# Task 0: Log In and Sign Up (with Tutorial)

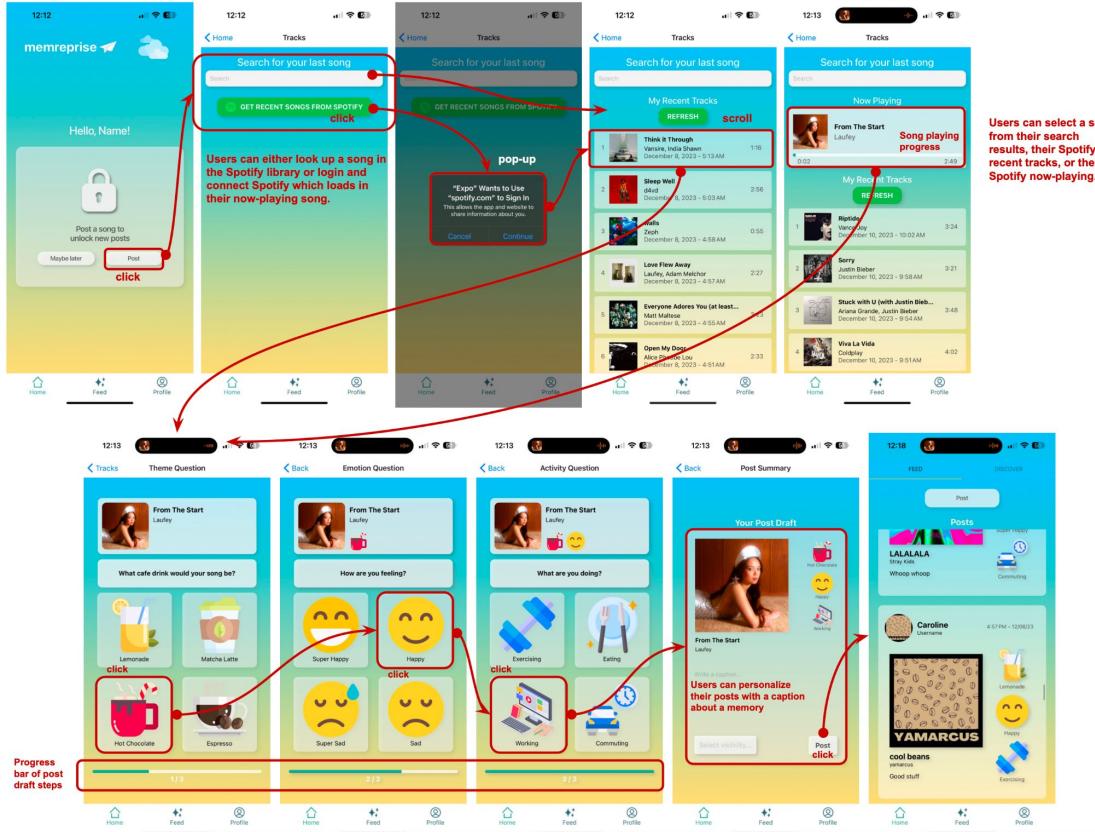


Users can log in, or create an account if they don't have one yet.

First-time users are presented with a tutorial, which they must complete before making their first post.

This enables users to learn the basics of the app and maintain a personal profile.

# Task 1: Share a Song

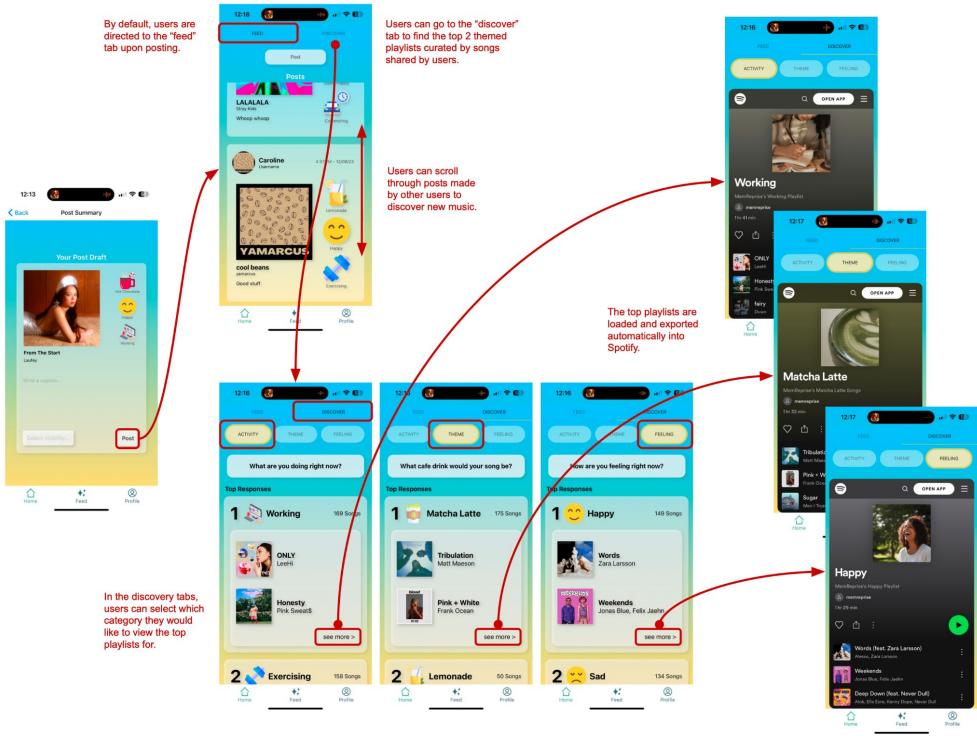


Users post songs they listened to by searching for them or linking to Spotify.

They personalize their posts by answering simple prompts and adding a caption.

This enables users to record small moments of everyday music-listening, unlock songs that other users post, and feed their curiosity.

# Task 2: Discover Music from Other Users with Similar Associations



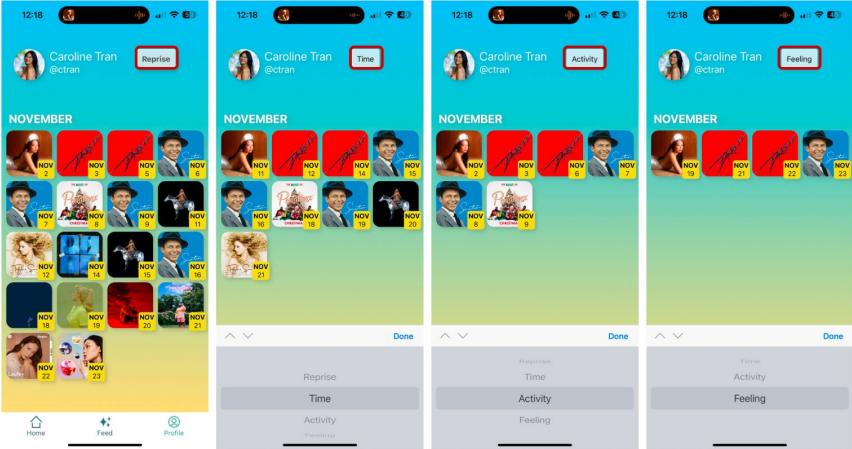
After posting, users can discover new songs posted by others based on similar associations by exploring their feed, or the discovery tab with themed playlists.

This enables users to see music others have posted based on activity, theme, and feeling. Users can also discover new music based on categories that interest them.

# Task 3: Create Personalized Playlist from Previously Shared Songs

Each user's profile page consists of their name, handle, profile picture, and their previously posted songs.

The "reprise" button is used to filter each user's previously shared songs. These filtered songs can be used to create a personalized playlist just for them.



Not implemented in this prototype, but if users selected "time," they would be able to further select 1 week, 1 month, 3 months... etc. Feelings and activities would also be further filtered into "happy," or "working" for example.

Using the profile tab, users can view the "reprise" of all the music they have posted. They can filter by time, activity, or feeling.

This enables users to access songs they have previously posted and filter them based on different categories.

03

# Demo



11:03



# memreprise

Where Music and Memories Meet

Login

Sign Up



Home

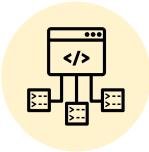


Feed



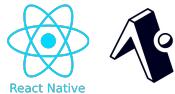
Profile

# Framework & Tools Used



## Framework

React Native  
Expo Go



## Tools Used

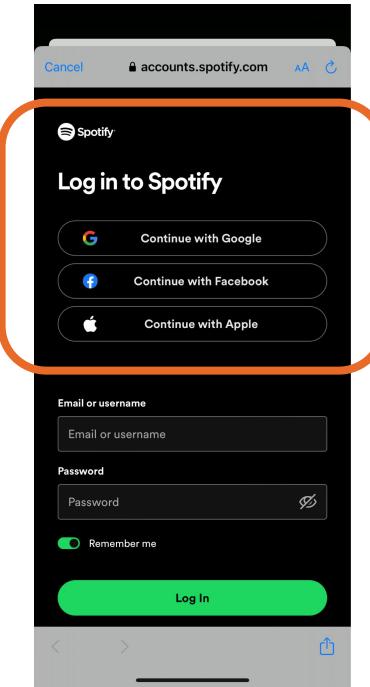
Figma  
XCode  
GitHub  
VSCode: Prettier Extension  
Spotify Developer API



# Implemented Features

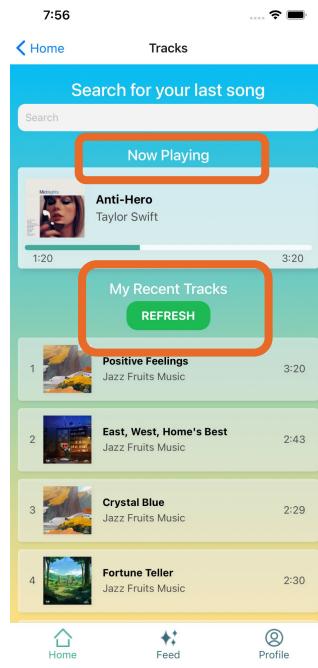
## Spotify API

All songs from Spotify Library can be searched for in the app



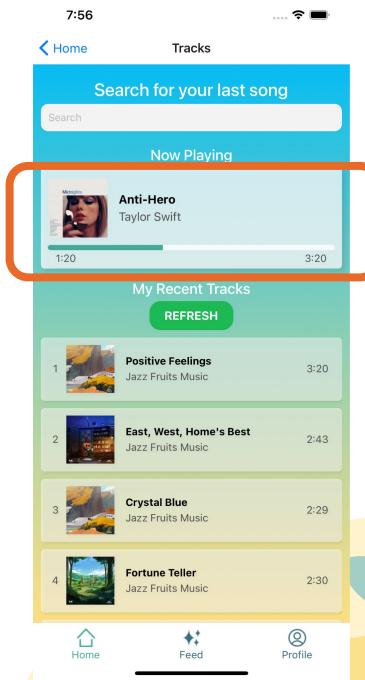
## Live Song Retrieval

Pulls user's now playing song so user does not have to search



## Current Song Progress

Communicates status of system and shows current song playing



# Implemented Features

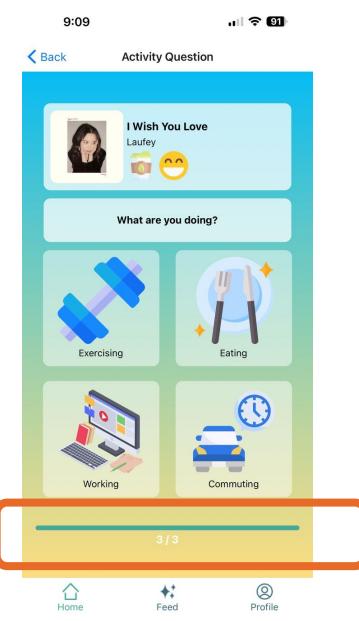
## Questionnaire

Users can select different options related to their song



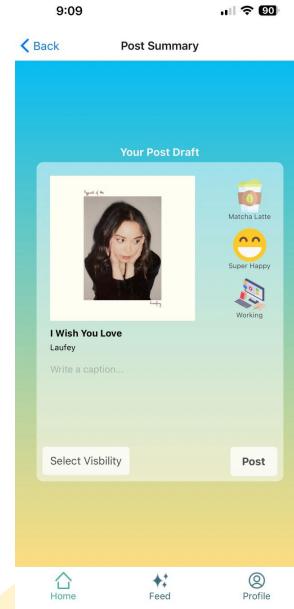
## Progress Bar

Indicates how many more questions the user has to answer



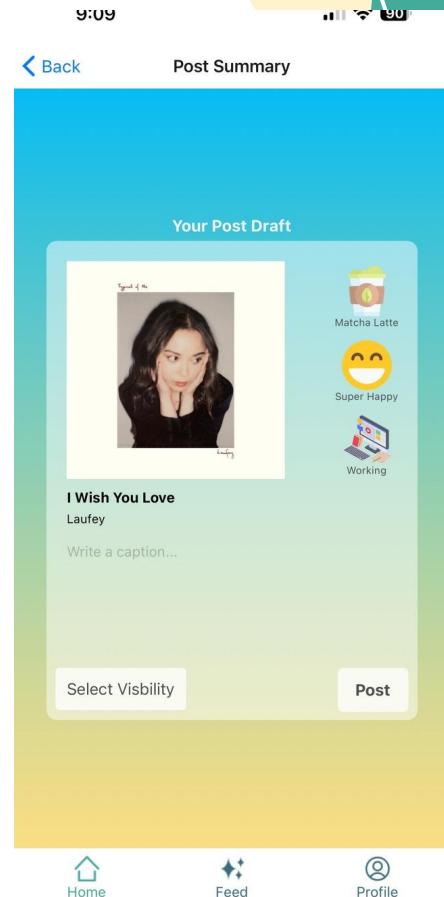
## Posts + Visibility

Users can now write a caption with their post and select visibility



# Missing Features + Hard Coded Aspects

- Log-in credentials not stored in database
- Top 3 playlists and results for each category generated from static data
- Post visibility: visibility status is static, not stored in database
- Month headers in profile are static



# Issues or Questions

## Q1

How to address  
non-spotify users?

## Q2

Is it possible to have  
multiple/randomized theme  
questions of the day?

## Q3

Should we prioritize  
popularity or how recent a  
post is?

04

## Future Enhancements



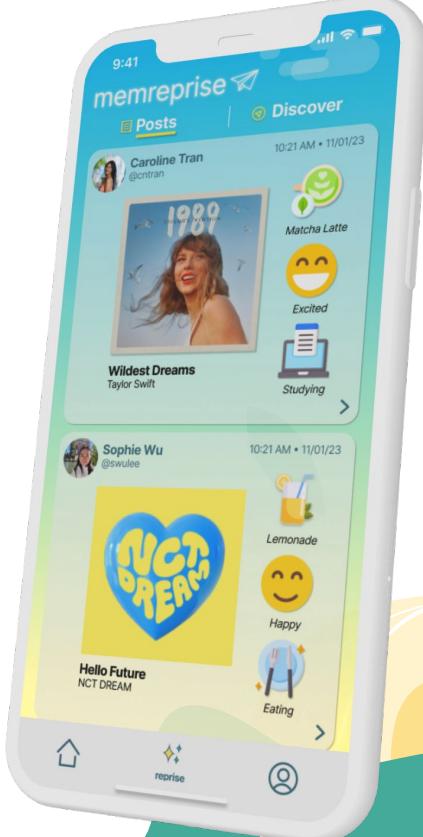
# Potential Additions and Changes

- Include **more tagging options and categories for posts** (perhaps include a scrollable list for emojis): grants users more freedom of expression.
- **Group similar selections together for playlists** (perhaps using LLMs): more convenient for the user when creating playlists.
- **Dark mode, accessibility features, etc.**: improves usability.

# Thanks

Do you have any questions?

**memreprise**  
where music and memories meet



# COLOR SCHEME FOR SLIDES

#ffd966

#fce08c

#fff3ce

#1c2e50

#9ecaec

#44aa99

#a2cec6